



μFR NDEF C# Example - Tag locking & password settings





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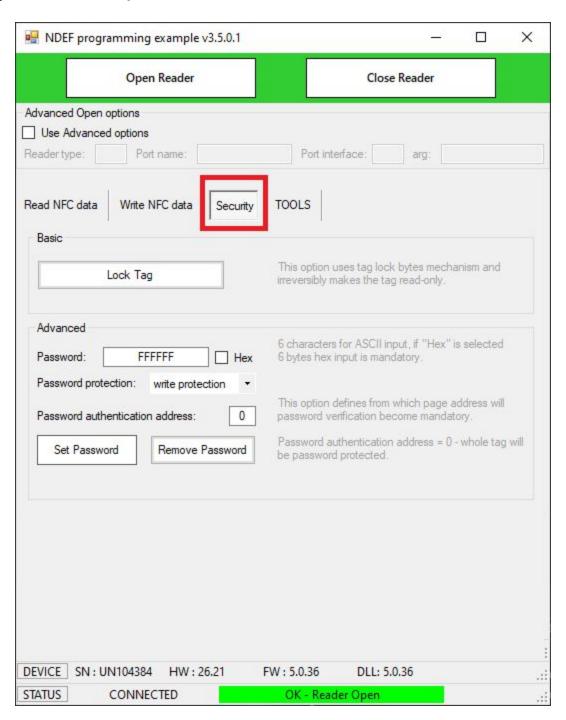
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Security tab settings

Navigate to tab 'Security'







Under 'Basic' category, is the following option: Lock tag.

Important: This card operation uses tags static/dynamic lock bytes mechanism, as such, it shall make tag read-only and is <u>irreversible!</u>

If the tag is already password protected, WRITING ERROR shall appear in the status field:

MDEF programming example v3.5.0.1	- 🗆 X
Open Reader	Close Reader
Advanced Open options Use Advanced options Reader type: Port name:	Port interface: arg:
Read NFC data Write NFC data Security Basic	TOOLS
Lock Tag	This option uses tag lock bytes mechanism and irreversibly makes the tag read-only.
Advanced Password: FFFFFF Hex	6 characters for ASCII input, if "Hex" is selected 6 bytes hex input is mandatory.
Password protection: write protection Password authentication address: 0	This option defines from which page address will password verification become mandatory.
Set Password Remove Password	Password authentication address = 0 - whole tag will be password protected.
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	FW : 5.0.36 DLL: 5.0.36
STATUS CONNECTED	WRITING ERROR

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In case of this error, please remove password first, and then restart the process by clicking on 'Lock Tag' button.

In case of a successful "Lock Tag" operation, following status shall appear:

NDEF programming example v3.5.0.1	- 🗆 X
Open Reader	Close Reader
Advanced Open options Use Advanced options Reader type: Port name:	Port interface: arg:
Read NFC data Write NFC data Security	TOOLS
Lock Tag	This option uses tag lock bytes mechanism and irreversibly makes the tag read-only.
Advanced Password: FFFFFF	6 characters for ASCII input, if "Hex" is selected 6 bytes hex input is mandatory.
Password authentication address: 0	This option defines from which page address will password verification become mandatory.
Set Password Remove Password	Password authentication address = 0 - whole tag will be password protected.
DEVICE SN: UN104384 HW: 26.21	FW: 5.0.36 DLL: 5.0.36
STATUS CONNECTED OK -	Tag has been locked successfully





After a successful operation, as shown in the image above, tag data is set to read-only, and as such, no new data or changes to existing data, can occur.

Under 'Advanced' category, are the following options: Set Password and Remove Password.

Set Password parameters:

- **Password**: can be entered as 6 hex bytes or 6 ASCII characters, checking 'Hex' checkbox will determine password encoding.
- **Password protection**: Used for determining password protection level, since password can be used as a method for either write protection, or read/write protection of card data.
- Password authentication address: Used for determining from which tag page shall data be protected by password, using this parameter with value 0 means password will cover the whole card.





After setting password successfully following status shall appear:



Important: To apply these changes to the tag, remove the card from the reader field, then place it on the reader again.





Remove password parameters:

- **Password**: Used for authentication, authentication with an old password is necessary, this parameter will be used for rewriting tag data so the password protection is invalidated.

After removing password successfully following status shall appear:

NDEF programming example v3.5.0.1	- 🗆 X
Open Reader	Close Reader
Advanced Open options Use Advanced options Reader type: Port name:	Port interface: arg:
Read NFC data Write NFC data Security Basic	TOOLS
Lock Tag	This option uses tag lock bytes mechanism and irreversibly makes the tag read-only.
Advanced Password: FFFFFF Hex	6 characters for ASCII input, if "Hex" is selected 6 bytes hex input is mandatory.
Password protection: write protection Password authentication address: 0	This option defines from which page address will password verification become mandatory.
Set Password Remove Password	Password authentication address = 0 - whole tag will be password protected.
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	FW: 5.0.36 DLL: 5.0.36
STATUS CONNECTED OK -	Password removed successfully





Revision history

Date	Version	Comment
2019-04-09	1.0	Base document